

```

calc_dailydose_AUC <- function(Params,days,dose=1,timepoints=1000,compartment="Cven")
{
  MW <- get_param("MW",Params,"calc_dailydose_AUC")
  time.interval <- 24
  dose <- get_param("BW",Params,"calc_dailydose_AUC")*dose/MW*10^6/1000
  DietInput<-matrix(c(seq(0,days*24,time.interval),rep(dose,days),0),ncol=2)
  out <-
  vliver_pbpk(sort(unique(round(c(seq(0,days*24,time.interval),seq(0,days*24,days*24/timepoints)),3))),c(P
  arams[names(Params)!="MW"],list(DietInput=DietInput)))
  AUC <- calc_timecourse_AUC(out$result[,c("time",compartment)])/24
  return(AUC)
}

```